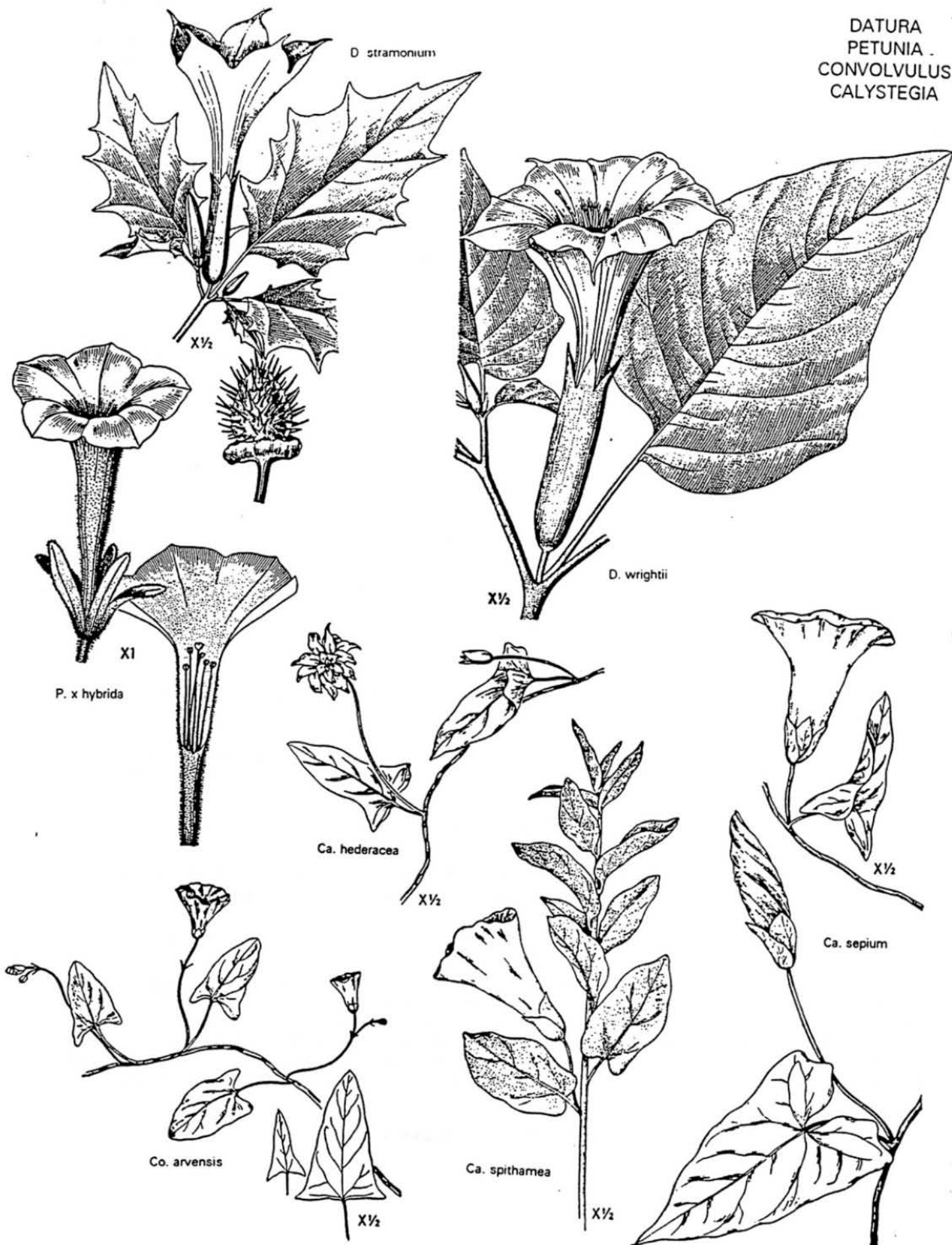


DATURA
PETUNIA
CONVOLVULUS
CALYSTEGIA



Coarse herbs; blades ovate, entire to sinuate-dentate or lobed; calyx tubular, 5-toothed, soon abscising crosswise, base remaining; corolla white to violet, funnelform, toothed or shallowly lobed; ovary 4-loculed.

- a Glabrous; corolla to 1 dm long; capsule prickly or smooth. 1. *D. stramonium*
a' Pubescent; corolla to 2 dm long; capsule prickly. 2. *D. wrightii*

1. **Datura stramonium* L.

Jimson-weed, Thorn Apple

Naturalized (native to warmer parts of New World)

Plants herbaceous, leaves coarsely toothed; stems and undersurface of leaves nearly glabrous; corolla funnelform, white to purple, less than 10 cm long; capsules erect, spiny. Incl. *D. tatula* L.

REFERENCES: Riddell 1834:157 (roadsides); Sullivant 1840:39 (Jamestown weed, naturalized plants); Craig 1890:54, 92 (#280 & 281, common along the brook and in waste places, 15 Jun 1887; University Farm Sep & Oct 1887; near the barn and on the island, 20 Jun 1888); Selby & Craig 1890:13 (#562 & 563, introduced); Cooperrider 1995:438 (illus. p. 437).

HERBARIUM RECORDS: 13 Jul 1892—Cols., *Bogue*; 4 Aug 1892—near Cols., *E. M. Wilcox*; 29 Aug 1892—Cols., *Bogue*; 25 Jul 1923—Franklin Co., *J. H. Schaffner*; Sep 1925—Cols., escaped from cultivation, *J. H. Schaffner*; 9 Jul 1982—Blendon Woods, disturbed areas, *Owens*; 8 Sep 1982—Highbanks Metro Park (Franklin & Delaware Cos.), riverbank, *G. Moore 303*; 15 Jul 1988—Highbanks Metro Park (Delaware Co.), Olentangy R. sandbars, *Watts 445* (OWU); 8 Aug 1990—jct. of Amity Rd. with Scioto Darby Creek Rd., abandoned field along N side of Scioto Darby Creek Rd., Brown Twp., *Lowden 4521*; 22 Sep 1991—W. Long St., just E of Confluence Park, Montgomery Twp., *Lowden 4855*.

2. **Datura wrightii* Regel

Downy Thorn-apple, Angel's-trumpet

Adventive (native of SW U.S. & Mexico)

Plants herbaceous, leaf margin entire; stems and upper surface of leaves short-pubescent; corolla funnelform, very long, approx. 15 cm; capsule nodding, spiny. Syn.: *D. inoxia* Mill.; incl. *D. meteloides* Dunal

REFERENCE: Cooperrider 1995:436.

HERBARIUM RECORD: 23 Jul 1923—Cols., *J. H. Schaffner*.

7. PETUNIA Juss.

Herb, clammy-pubescent; leaves alternate; calyx deeply parted to below the middle, lobes often unequal; corolla funnelform to salverform, shallowly 5-lobed; stamens inserted at or below the middle of the corolla tube; capsule many-seeded.

1. **Petunia × hybrida* Vilm.

Garden Petunia

Adventive (American)

Plants herbaceous, with clammy, viscid pubescence; calyx more than 1 cm long, lobed nearly to base; corolla of various colors, approx. 6 cm long. Commonly cultivated.

REFERENCE: Cooperrider 1995:438 (illus. p. 437).

HERBARIUM RECORD: Aug 1891—RR yards, near Cols., *E. M. Wilcox*.

CONVOLVULACEAE, Morning-glory Family

Herbs, usually trailing or twining, sometimes with milky juice; leaves alternate, simple (rarely deeply divided); flowers hypogynous, bisporangiate; sepals 5, usually separate; corolla regular, with 5 lobes or plaits; stamens 5, on corolla tube; hypogynous disk usually present; carpels 2 or 3, united, locules as many or twice as many as result of false septum in each carpel; fruit a capsule.

- a Stigmas 2, oblong or linear; calyx subtended by 2 large bracts, or 2 small bracts on flower-stalk some distance below flower.
b Calyx not subtended by bracts; peduncle with 2 small bracts; corolla about 2 cm long. 1. CONVOLVULUS
b' Calyx subtended by and enclosed by 2 bracts. 2. CALYSTEZIA
a' Stigma capitate or with 2-3 lobes, the lobes globular; calyx not subtended by bracts. 3. IPOMOEA

1. CONVOLVULUS L. Bindweed

Trailing or twining; leaves entire, hastate to sagittate; calyx not concealed by bracts; peduncle with 2 small bracts, well removed from the flower; corolla about 2 cm long, white-pink.

1. **Convolvulus arvensis* L.

Small Bindweed, Field Bindweed

Naturalized (native of Europe)

Stems twining; leaf base hastate to sagittate; sepals 3.5 mm long, blunt and rounded at apex, not covered by bracts; peduncles axillary, exceeding subtending leaves, 1-2-flowered; corolla white to pinkish.

REFERENCES: Riddell 1834:156 (cultivated fields); Craig 1890:92 (this plant which is not given in Beardslee's "Catalogue of the Plants of Ohio," was recently introduced and is now growing sparingly on the campus SW of the college where it is spreading rapidly, 15 Jun 1887; the only other locality is the common SE of the tile work); Selby & Craig 1890:13 (introduced); Cooperrider 1995:332 (illus. p. 331).

HERBARIUM RECORDS: 5 Aug 1893—canal S of Cols., *Werner*; 5 Aug 1893—Cols., *Werner* (CLM); 24 Aug 1898—OSU campus, Cols., *Tyler*; 9 Aug 1954—Westerville, *C. Goslin*; 22 May 1982—along Olentangy River Rd. near W. North Broadway, Cols., *D. Wilson* 55; 21 May 1986—Park of Roses, Cols., *Blanco*; 25 May 1986—Kenny Rd. near SE corner of the intersection of Kenny Rd. & Ackerman Rd., weedy, *Taylor-Lehman* 67; 30 May 1986—corner of Ackerman Rd. & Kenny Rd., *R. Burnes* 48; 30 May 1986—roadside S of intersection of Kenny Rd. & W. Lane Ave., *Yang* 211; 1 Jun 1986—corner of High St. & Larrimer, Worthington, *Benkowski* 49; 25 May 1988—corner of E. Patterson Ave. & Adams Ave., Cols., *Kelly* 36; 26 May 1988—OSU campus, N of Larkins Hall, N side of Tuttle Park Place, *Gerberick* 43; 9 Jun 1988—Rhodes Park, S of W. Broad St. & W of I-70, SW Cols. Quad., *Cusick* 27481 (MU); 4 Jun 1989—roadside S of Henderson Rd., between Olentangy River Rd. & Rt. 315, Cols., *Lowden* 4094; 14 Jun 1989—OSU campus, around the B&Z Bldg., 1735 Neil Ave., *Lowden* 4147; 11 Aug 1989—E bank of Scioto R., Trabue-Murphy Landing, just S of Fishinger Rd. bridge, Perry Twp., *Lowden* 4267.

2. CALYSTEGIA R.Br.

Trailing, twining or erect; leaves entire, hastate, sagittate, or cordate at base; flowers large, solitary or few on axillary peduncles; calyx subtended by 2 bracts; corolla pink or white, funnellform, margin nearly entire; locules 2-4; style 1; stigmas 2.

a Corolla single.

b Stems twining and climbing, often much longer than 6 dm; petioles often more than half as long as blades; flowers many; corolla white or pink. 1. *C. sepium*

b' Stems usually not twining; less than 6 dm long; petioles less than half as long as blades; flowers few, from lower axils; corolla white. 2. *C. spithamea*

a' Corolla double; pink. 3. *C. hederacea*

1. †*Calystegia sepium* (L.) R.Br.

Hedge Bindweed

Stems twining or creeping; calyx covered with 2 large sepeloid bracts, more than 1.7 cm long at anthesis; length of petioles less than half to more than half that of blades; corolla white to pink or rose; peduncles terete or nearly so. Fencerows and fields. Syn.: *Convolvulus sepium* L.

REFERENCES: Sullivant 1840:28; Craig 1890:92 (common in the meadow near the river; a bad weed in cultivated fields, 11 Jul 1882, 17 Jun 1888); Selby & Craig 1890:13; Cooperrider 1995:330 (illus. p. 331).

HERBARIUM RECORDS: 1837—Cols., herbarium of *H. Jones*; 14 Jul 1892—Cols., *Bogue*; 30 May 1896—Reservoir Park, *M. Wright*; 3 Jul 1925—Worthington, *R. Crane* (OWU); 14 Jun 1986—Highbanks Metro Park (Delaware Co.), field, *Morawetz*; 29 Jun 1986—Highbanks Metro Park, *Morawetz* 19 (OWU); 16 Jul 1986—Highbanks Metro Park (Delaware Co.), field, *Watts* 328 (OS, OWU); 9 Aug 1990—Borror Rd., 1 mi. N of Hiner Rd., fence row, Jackson Twp., *Lowden* 4533; 30 Jun 1991—E bank of Scioto R., from Trabue-Murphy landing to ½ mi. N of Fishinger Rd. bridge, Perry Twp., *Lowden* 4751.

NOTE: Perhaps *Convolvulus repens* cited by Riddell 1834:156 (cultivated fields) belongs here.

2. *Calystegia spithamea* (L.) Pursh

Low Bindweed, Upright Bindweed

Stems erect; calyx covered with 2 large sepeloid bracts; length of petioles half that of blades or less; corolla white or pinkish. Syn.: *Convolvulus spithameus* L.

REFERENCES: Sullivant 1840:28; Selby & Craig 1890:13; Selby 1891a:111a (#559 Re-collected); Cooperrider 1995:330 (illus. p. 331).

HERBARIUM RECORDS: 3 Jun 1891—Harrisburg, *Selby* (WOOS); 22 May 1899—Big Darby, *Selby*; 17 Jun 1928—E of Gahanna, *J. H. Schaffner*; 1 Jun 1982—Blendon Woods, *Owens*.

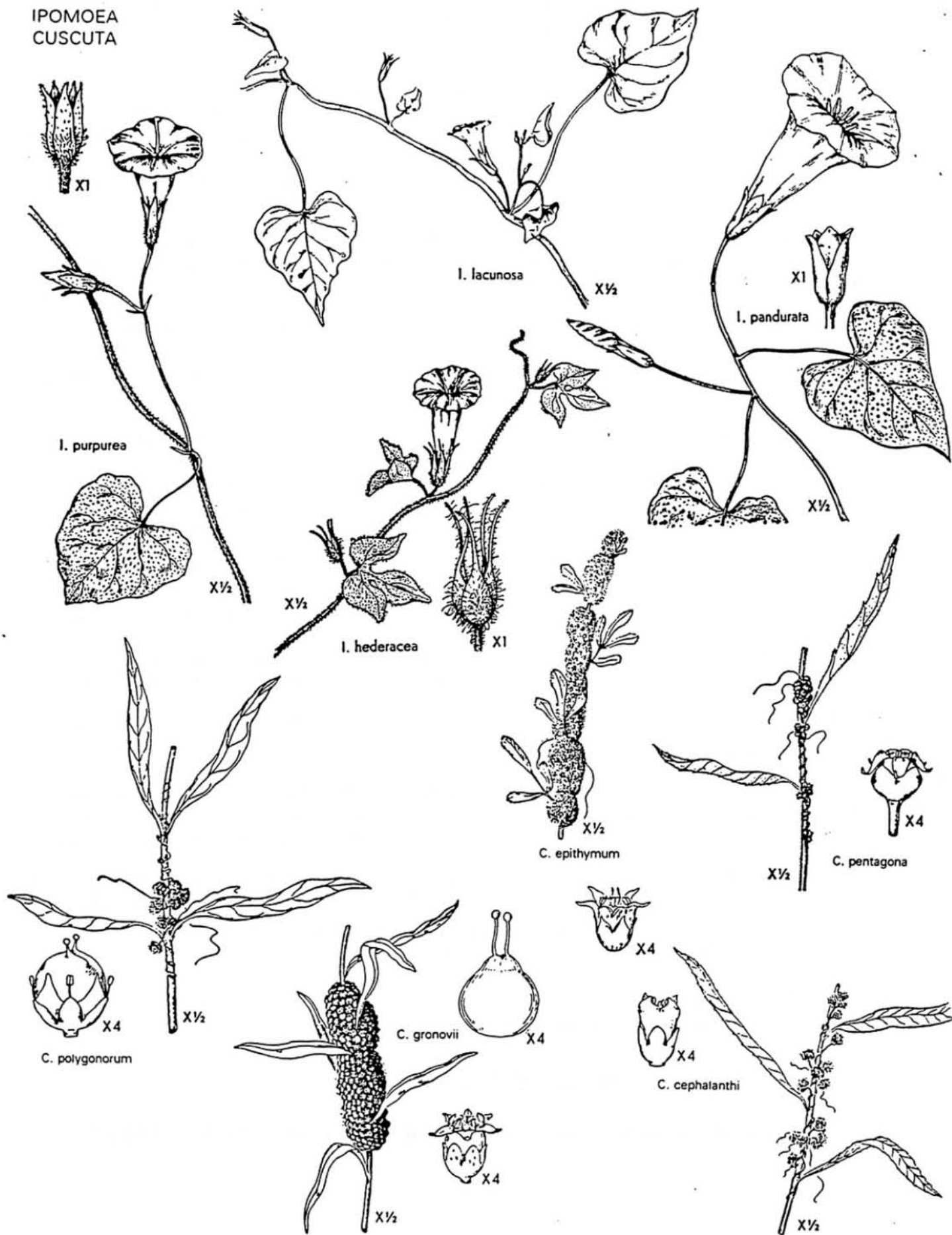
3. **Calystegia hederacea* Wall.

Bindweed

Adventive (native of Japan)

Similar to *Calystegia sepium* except for peduncles prominently winged and bracts at anthesis slightly shorter. Syn.: *C. pubescens* Lindl., *C. japonicus* Thunb., *C. wallichianus* Spreng.

IPOMOEA
CUSCUTA



HERBARIUM RECORDS: 11 Aug 1989—S of Fishinger Rd. bridge, E bank of Scioto R., Perry Twp., *Lowden 4268*; 9 Aug 1990—Borror Rd., 1 mi. N of Hiner Rd., fence row, Jackson Twp., *Lowden 4532*.

NOTE: Not mapped for Franklin Co. by Cooperrider 1995:330 (illus. p. 331).

3. IPOMOEA L. Morning-glory

Leaves cordate-ovate, entire, lobed, or pinnately parted; flowers large, solitary or in small clusters on axillary peduncles; outer sepals usually larger than inner; sepals, petals, and stamens 5; stamens and style included; corolla funnelform to campanulate, pink, purple, blue, or white; corolla-margin entire or shallowly lobed; style 1; locules 2-4.

- a Locules of ovary 3; stigma 3-lobed.
 - b Blades usually entire; sepals acute, 10-15 mm long; corolla of various colors. **1. *I. purpurea***
 - b' Blades usually 3-lobed; sepals abruptly narrowed, tapering to long slender tips, 15-25 mm long; corolla blue changing to rose. **2. *I. hederacea***
- a' Locules of ovary 2; stigma unlobed or 2-lobed.
 - c Sepals glabrous, obtuse; corolla about 6 cm long or more, white, red-purple in the tube; perennial with very large root. **3. *I. pandurata***
 - c' Sepals sparsely long-hairy, bristle-tipped; corolla 2 cm long or less, white, pink, or purple; annual; capsule pubescent. **4. *I. lacunosa***

1. *Ipomoea purpurea* (L.) Roth
Naturalized (native of tropical America)

Common Morning-glory

Vine; leaves unlobed; sepals less than 15 mm long, acute at apex, not covered with sepaloid bracts; corolla rose-red; stamens and styles included; stigma 3-lobed; peduncles and pedicels pubescent with reflexed hairs.

REFERENCES: Riddell 1834:156 (*Convolvulus purpureus*, doubt to correctness in the natural system; naturalized); Craig 1890:54 (*Pharbitis purpurea* Lam., University Farm Sep & Oct 1887); Cooperrider 1995:327 (illus. p. 329).

HERBARIUM RECORDS: 5 Sep 1986—Piedmont Rd., E of N. High St., NW Cols. Quad., *Cusick 25796* (KE); 8 Aug 1990—jct. of Amity Rd. with Scioto Darby Creek Rd., abandoned field along N side of Scioto Darby Creek Rd., Brown Twp., *Lowden 4516*.

2. *Ipomoea hederacea* Jacq.
Naturalized (tropical America)

Ivy-leaved Morning-glory

Twining vine, leaves markedly 3-lobed; calyx not covered with sepaloid bracts, sepals more than 15 mm long, attenuate at apex, bases with long straw-covered hairs; corolla purplish-blue, white at base; stamens and styles included.

HERBARIUM RECORD: 8 Aug 1990—jct. of Amity Rd. with Scioto Darby Creek Rd. abandoned field along N side of Scioto Darby Creek Rd., Brown Twp., *Lowden 4517*.

NOTE: Not mapped for Franklin Co. by Cooperrider 1995:327 (illus. p. 329).

3. *Ipomoea pandurata* (L.) G.Mey.

Wild Potato-vine, Wild Morning-glory, Man-of-the-Earth

Plants twining; leaves broadly cordate-ovate; sepals more than 10 mm long, leathery, obtuse at apex, not covered with sepaloid bracts; corolla cream-white with reddish-purple center; stamens and styles included. Disturbed habitats & riverbanks.

REFERENCES: Riddell 1834:156; Sullivant 1840:27; Craig 1890:91 (several specimens on the island growing on the dike W of the large lagoon which divides the island, 21 Jul 1889; the only locality known in the county); Selby & Craig 1890:13; Cooperrider 1995:327 (illus. p. 329).

HERBARIUM RECORDS: Jun 1891—Cols., *Werner* (CLM); 9 Jul 1891—OSU campus, near Cols., *Hine*; 6 Jul 1900—Franklin Co., *Tyler*; 4 Aug 1989—along I-70 at the Franklin/Pickaway Co. Line, W of Harrisburg, Pleasant Twp., *Lowden 4226*; 30 Jun 1991—rocky E bank of Scioto R. at Trabue-Murphy Landing, just S of Fishinger Rd. bridge, Perry Twp., *Lowden 4750*.

4. *Ipomoea lacunosa* L.

Small-flowered Morning-glory

REFERENCE: Selby 1892a:110 (Alum Creek, *Lageman*).

NOTE: No specimens seen from Franklin Co. Not mapped for Franklin Co. by Cooperrider 1995:328 (illus. p. 329).

CUSCUTACEAE, Dodder Family

Plants without chlorophyll, not rooting in soil after seedling stage; leaves scalelike; carpels and locules 2.